For Research Use Only

GPX4 Recombinant antibody, PBS Only (Detector)

Catalog Number:82949-1-PBS

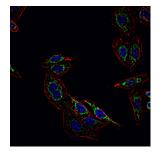


Basic Information	Catalog Number: 82949-1-PBS	GenBank Accession Number: BC022071	Purification Method: Protein A purification
	Size:	GenelD (NCBI):	CloneNo.:
	Source:P36969RabbitFull NaiIsotype:glutathiIgG(phospheric)	2879	230168A8
		UNIPROT ID: P36969	
		(phospholipid hydroperoxidase)	
		Calculated MW: 22 kDa	
		Applications	Tested Applications: IHC, IF/ICC, FC (Intra), Cytometric b Sandwich ELISA, Indirect ELISA, Sam
Species Specificity: human, mouse			
Product Information	820/0-1-DBS targets CDV/ as part of	a matched antibody pair	
	82949-1-PBS targets GPX4 as part of a matched antibody pair:		
	MP00049-1: 82949-3-PBS capture and 82949-1-PBS detection (validated in Cytometric bead array)		
	MP00049-3: 82949-4-PBS capture and 82949-1-PBS detection (validated in Cytometric bead array, Sandwich ELISA)		
	Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.		
	This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.		
De el energia de la ferma etien	GPX// (Phospholinid hydroperovide o	zlutathione perovidase, mitochondrial) protects cells against membrane linid
Background Information	GPX4 (Phospholipid hydroperoxide glutathione peroxidase, mitochondrial) protects cells against membrane lipid peroxidation and cell death. Required for normal sperm development and male fertility. It has two isforms about 20KDa and 22KDa, respectively. GPX4 is a monomer, but it has a tendency to form higher mass oligomers (PMID:17630701). It presents primarily in testis.		
Storage	Storage: Store at -80°C.		
	Storage Buffer: 100% PBS pH 7.3		

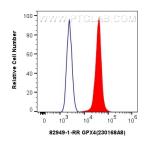
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

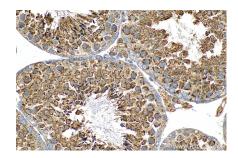


Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using GPX4 antibody (82949-1-RR, Clone: 230168A8) at dilution of 1:300 and CoraLite@488-Conjugated AffniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 82949-1-PBS in a different storage buffer formulation.

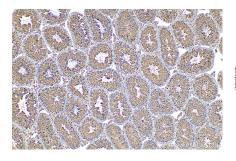


1x10⁶ HeLa cells were intracellularly stained with 0.25 ug GPX4 Recombinant antibody (82949-1-RR, Clone:230168A8) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 82949-1-PBS in a different storage buffer formulation.

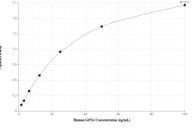
ter Logistic (4-PL) Curve Fit



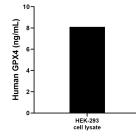
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 82949-1-RR (GPX4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82949-1-PBS in a different storage buffer formulation.



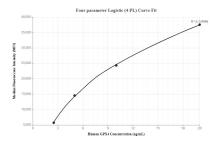
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 82949-1-RR (GPX4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82949-1-PBS in a different storage buffer formulation.



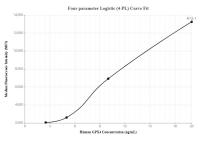
Sandwich ELISA standard curve of MP00049-3, Human GPX4 Recombinant Matched Antibody Pair -PBS only. 82949-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag5809. 82949-1-PBS was HRP conjugated as the detection antibody. Range: 1.56-100 ng/mL



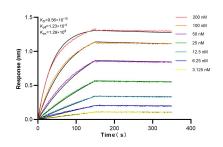
HEK-293 cell lysate was measured. The human GPX4 concentration of detected samples was determined to be 8.1 ng/mL (based on a 1.2 mg/mL extract load).



Cytometric bead array standard curve of MP00049-1, GPX4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 82949-3-PBS. Detection antibody: 82949-1-PBS. Standard: Ag5809. Range: 2.5-20 ng/mL



Cytometric bead array standard curve of MP00049-3, GPX4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 82949-4-PBS. Detection antibody: 82949-1-PBS. Standard: Ag5809. Range: 2.5-20 ng/mL



Biolayer interferometry (BLI) kinetic assays of 82949-1-RR against Human GCLM were performed. The affinity constant is 1 pM.